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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/720,384	12/21/2000	Saverio Carl Falco	BB-1167-B	BB-1167-B 2363	
23906	7590 10/21/2003		EXAM	EXAMINER	
E I DU PONT DE NEMOURS AND COMPANY LEGAL PATENT RECORDS CENTER			BUI, PHUONG T		
	ILL PLAZA 25/1128		ART UNIT	PAPER NUMBER	
4417 LANC	ASTER PIKE		1638		
WILMINGT	ON, DE 19805		DATE MAILED: 10/21/2003	<b>1</b>	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
		09/720,384		FALCO ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Phuong T. Bu	ui	1638				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM								
THE   - Externation   - If the   - If NC   - Failu   - Any   earne	MAILING DATE OF THIS COMMUNICATION.  Insions of time may be available under the provisions of 37 CFR 1.13  SIX (6) MONTHS from the mailing date of this communication.  In period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period ree to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, y within the statutor will apply and will ex	however, may a reply be time y minimum of thirty (30) days xpire SIX (6) MONTHS from the	ely filed will be considered timely. ne mailing date of this communication (35 U.S.C. § 133).				
Status	Decreasing to recommunication(s) filed an							
1)□	Responsive to communication(s) filed on This action is <b>FINAL</b> . 2b) Thi	— · iis action is no	on final					
2a)⊠	,			seacution as to the merits is	e			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
•	ion of Claims							
,—	Claim(s) 12-17 is/are pending in the application							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
,	Claim(s) is/are allowed.							
	Claim(s) <u>12-17</u> is/are rejected.							
ŕ	Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers								
	The specification is objected to by the Examiner	r						
•	The drawing(s) filed on is/are: a) accep		iected to by the Evan	iner				
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Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachmen		. <b>.</b>						
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>©</u> 7	5)		PTO-413) Paper No(s). <u>093</u> Q atent Application (PTO-152)	2003			

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### **DETAILED ACTION**

### Restriction election

- 1. The Office acknowledges the receipt of Applicant's amendment filed July 3, 2003. Claims 12-17 are pending and are examined in the instant application. This action is made FINAL. Any previous rejections not set forth below have been withdrawn.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Information Disclosure Statement

3. An initialed and dated copy of Applicant's IDS form 1449 (filed July 3, 2003) is attached to the instant Office action.

# Claim Rejections - 35 USC § 112, first paragraph

- 4. Claims 12-19 are also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either an "APS kinase" asserted utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.
- 5. Claims 12-17 remain rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This is a written description rejection. This rejection is maintained for reasons of record.

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Applicant traverses, stating primarily that SEQ ID NO:3 encodes a complete protein and is not a partial protein sequence. However, Applicant's remarks filed July 3, 2003 appear to be internally inconsistent. On page 5 of Applicant's Remarks, Applicant stated "there is an ATG codon at position 137 of SEQ ID NO:4 although Applicants do not believe this to be a start methionine". On page 7, Applicant stated "Applicants believe SEQ ID NO:3 to contain a single open reading frame of 1028 bp (from 2-1030) encoding a functionally complete protein of 343 amino acids (SEQ ID NO:4)". In a telephone interview on September 30, 2003, Applicant stated that Applicant is uncertain whether SEQ ID NO:3 encodes a complete protein. However, Applicant believes SEQ ID NO:3 encodes a partial transit peptide and a full mature APS kinase.

After careful consideration of Applicant's traversal and evidence filed July 3, 2003, and the telephonic interview of September 30, 2003, the Office is maintaining the written description rejection for the following reasons. Since it is unclear whether SEQ ID NO:4 contains the full APS kinase protein, and the "comprising" language in the claims encompass the full protein, the current claims are not in compliance with the written description requirement. There is no evidence that Applicant is in possession of the complete APS kinase protein as claimed. However, the Office believes that SEQ ID NO:4 has APS kinase activity based upon the submitted references and sequence alignment data filed July 3, 2003.

Furthermore, the claims failed to comply with the written description requirements because, as stated in the previous Office action, the "% sequence identity" language in the claims encompass mutants, allelic variants and APS kinases from other sources which Applicant does not disclose or is in possession of at the time of filing. One skilled in the art would not be able to

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visualize or recognize the identity of other APS kinase members based upon the single disclosure of SEQ ID NO:3 isolated from *Zea mays*.

#### Remarks

- 6. No claim is allowed. SEQ ID NO:3 and a nucleotide sequence encoding SEQ ID NO:4 are free of the prior art.
- 7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Papers relating to this application may be submitted to Technology Sector 1 by facsimile transmission. Papers should be faxed to Crystal Mall 1, Art Unit 1638, using fax number (703) 308-4242. All Technology Sector 1 fax machines are available to receive transmissions 24 hrs/day, 7 days/wk. Please note that the faxing of such papers must conform with the Notice published in the Official Gazette, 1096 OG 30, (November 15, 1989).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Bui whose telephone number is (703) 305-1996.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Amy Nelson, can be reached at (703) 306-3218.

Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist whose telephone number is (703) 308-0196.

Phuong Bui Primary Examiner Art Unit 1638 October 6, 2003

PRIMARY EXAMINED